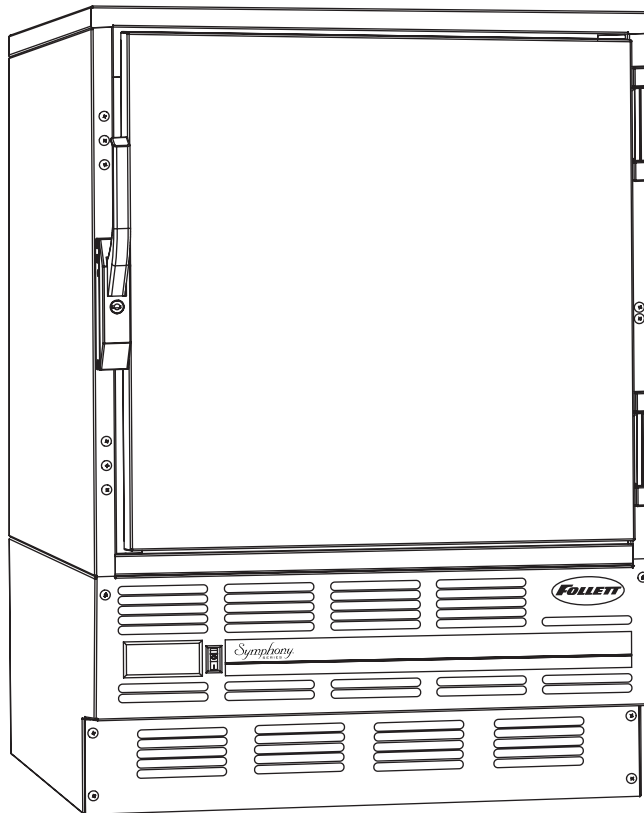


Symphony™ REF Series Undercounter Refrigerator

Order parts online
www.follettice.com

Installation, Operation and Service Manual

Service numbers B59000 and above



**Following installation, please forward this manual
to the appropriate operations person.**



FOLLETT
Innovative solutions, inspired by ice

801 Church Lane • Easton, PA 18040, USA
Toll free (800) 523-9361 • (610) 252-7301
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Welcome to Follett

Follett equipment enjoys a well-deserved reputation for excellent performance, long-term reliability and outstanding after-the-sale support. To ensure that this product delivers that same degree of service, we ask that you take a moment to review this manual before beginning the installation. Should you have any questions or require technical help at any point, please call our technical service group at (800) 523-9361 or (610) 252-7301.

Before you begin

After uncrating and removing all packing material, inspect the equipment for concealed shipping damage. If damage is found, notify the shipper immediately and contact Follett Corporation so that we can help in the filing of a claim, if necessary.

Specifications

Series specifications

| | | | |
|----------|---------------|--|--------------------|
| REF4-ADA | 31.25" height | fits below 34" high ADA-compatible counter | 4.0 cu ft capacity |
| REF5 | 34.00" height | fits below standard 36" high counter | 4.8 cu ft capacity |

Electrical specifications

115V, 60Hz, 1 phase

Full load amps: 8.0

Minimum circuit ampacity: 15 amp

Maximum size of branch circuit overcurrent device: 15 amp

Refrigeration specifications

Refrigerant – R404A

Charge size – 8 oz

Maximum design pressures:

High side – 375psi

Low side – 174psi

Installation specifications

Ambient temperature must not exceed 100°F (38°C).

The front louvered panel must be kept free of any cabinet trim or obstructions to ensure proper ventilation of the refrigeration system.



Important cautions

- Equipment must be wired according to local and NEC codes.
- Always disconnect power before servicing refrigerator.

Installation

Installing legs – required

1. Remove legs from plastic bag packed inside refrigerator.
2. Tip refrigerator back and screw legs in all the way to stop (they will extend 1/8" below base of REF).
3. Adjust legs as needed to level REF in both directions. To access legs, remove the lower front panel. Turn legs clockwise to extend legs.

Installing shelves – required

1. Remove shelves and shelf brackets packed inside refrigerator. (If ordered, find cut-out upper shelf accessory in separate box.)
2. Install shelf brackets in pilasters (insert top tab, squeeze and push in lower tab).
3. If ordered, position cut-out upper shelf accessory below evaporator with cut-out around drain.

Installing controller faceplate – required

1. Remove °F and °C faceplates from plastic bag packed inside refrigerator.
2. Snap appropriate faceplate in place over controller face.
3. If °C display is desired, resetting of temperature controller is required. See below.

Changing temperature controller settings – optional

Follett's temperature controller is pre-programmed with a 34°F set point and °F display. The 34° set point delivers a temperature range of 34°F – 38°F that may not meet the needs of your specific application. Follett's controller set point can be changed to deliver the required range in either °F or °C. Refer to page 6 for instructions on changing set point and/or display to °C.

Fig. 1

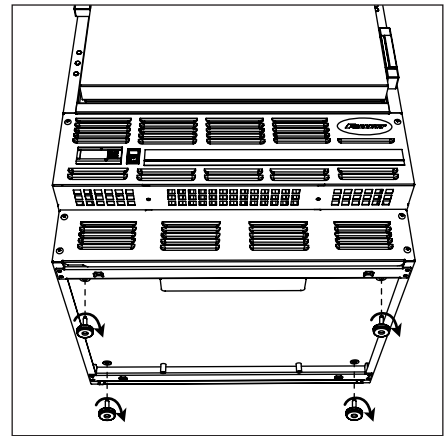


Fig. 2

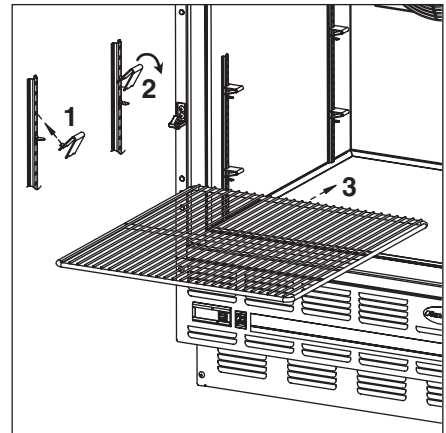


Fig. 3

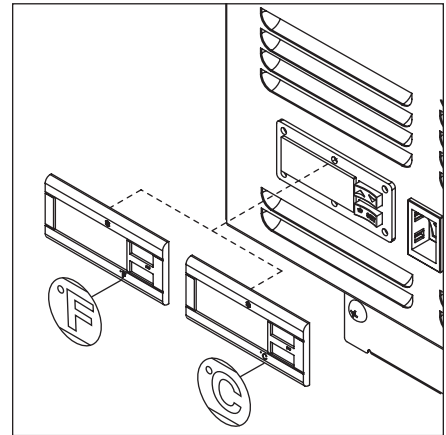
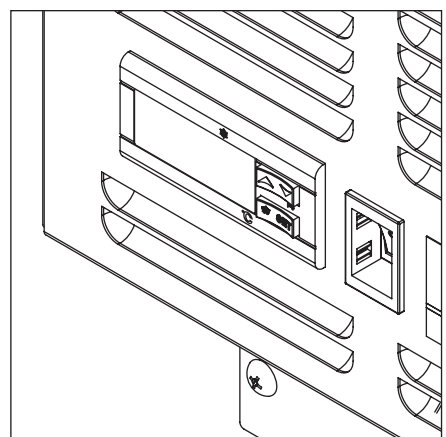


Fig. 4



Reversing the door swing – optional

1. Remove screws and latch from refrigerator cabinet. (Fig. 5.1).
2. Use flat screwdriver to carefully remove (do not scratch) hinge covers (Fig. 6.1).
3. Support door and remove screws attaching hinge to refrigerator cabinet (Fig. 6.2).
4. Cover hinge screw holes with screw hole plugs removed from opposite side.
5. Reverse door and reinstall hinge screws.
6. Reinstall latch on opposite side.
7. Remove screws and handle from door (Fig. 7.1).
8. Rotate handle (Fig. 7.2).
9. Reinstall handle screws (application of 242 blue Loctite® to handle screws recommended).

Fig. 5

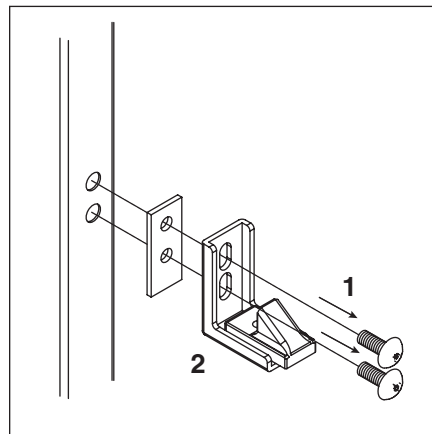


Fig. 6

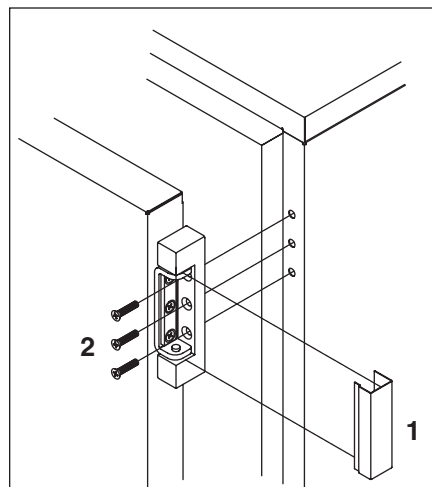
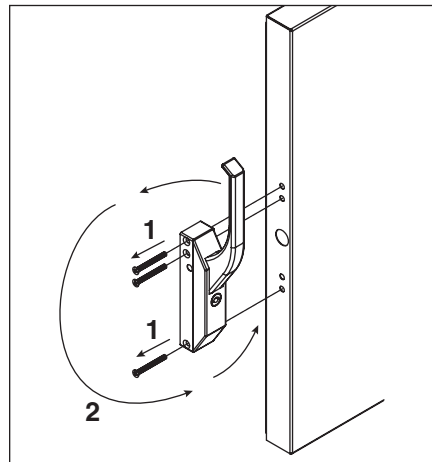


Fig. 7



Controller operation

In normal operation the controller displays cabinet temperatures in °F (default) or user-selected °C. °C temperatures are displayed to 1 decimal point.

An LED located below the snowflake icon flashes when the compressor is running.

Rocker buttons to the right of the temperature display control all programming functions.

The controller is pre-programmed with a 34°F set point which provides a compressor cut-in at 38°F and cut-out at 34°F. This may not meet your specific application needs. For example, many pharmaceutical manufacturers recommend that their refrigerated medications be stored between 36°F and 46°F. Instructions for changing the set point are found below.

Refer to the chart below for the set point for your application's required temperature range:

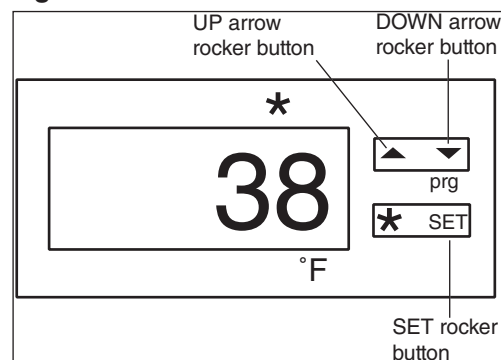
| Set point °F/°C | Cut-in/ Cut- out °F | Cut-in/ Cut-out °C | Normal display range temperature °F/°C |
|--------------------|------------------------|-----------------------|---|
| 34° / 1.1° | 38° / 34° | 3.3° / 1.1° | 32° - 38° / 0° - 3.3° |
| 35° / 1.7° | 39° / 35° | 3.9° / 1.7° | 33° - 39° / .6° - 3.9° |
| 36° / 2.2° | 40° / 36° | 4.4° / 2.2° | 34° - 40° / 1.1° - 4.4° |
| 37° / 2.8° | 41° / 37° | 5° / 2.8° | 35° - 41° / 1.7° - 5° |
| 38° / 3.3° | 42° / 38° | 5.6° / 3.3° | 36° - 42° / 2.2° - 5.6° |
| 39° / 3.9° | 43° / 39° | 6.1° / 3.9° | 37° - 43° / 2.8° - 6.1° |
| 40° / 4.4° | 44° / 40° | 6.7° / 4.4° | 38° - 44° / 3.3° - 6.7° |
| 41° / 5° | 45° / 41° | 7.2° / 5° | 39° - 45° / 3.9° - 7.2° |

All set points have a 4°F differential (HY setting on the controller). The 4°F differential means that with a 34°F set point, for example, the compressor will turn off at 34°F and turn on when it reaches 38°F.

Caution: Do NOT change the differential (HY setting) except as indicated below in instructions for changing the °C or °F display. Changes to the HY setting can cause short-cycling and failure of the compressor.

Because there is still refrigerant in the evaporator, there can be an additional 1° - 1.5°F of downward "drift" in temperature after the compressor turns off. The temperature may momentarily display as low as 32°F (32.9°F and below rounds down to 32°F) before beginning to rise again.

Fig. 8



To display temperature cut-out

| STEP | INPUT | DISPLAY |
|------|-----------------------|---|
| 1 | Press and release SET | Current cut-out temperature will display for approximately 5 seconds. Display will return to current refrigerator temperature |

To change temperature cut-out

| STEP | INPUT | DISPLAY |
|------|--|--|
| 1 | Press and hold SET for 3 seconds | Current cut-out temperature displayed |
| 2 | Press UP or DOWN arrows to desired cut-out temperature per above table | New cut-out temperature displayed |
| 3 | Press and release SET | New cut-out temperature blinks three times, then current refrigerator temperature will display |

To change temperature display from °F to °C

| STEP | INPUT | DISPLAY |
|------|---|---|
| 1 | Press and hold SET + DOWN arrow together for 3 seconds | HY |
| 2 | Press UP or DOWN arrow until CF is displayed | CF |
| 3 | Press and release SET | °F |
| 4 | Press DOWN arrow | °C |
| 5 | Press and release SET | °C blinks 3 times then HY displayed |
| 6 | Press and release SET | 0.4 |
| 7 | Press UP arrow until 2.2 is displayed | New differential (2.2°C) displayed |
| 8 | Press and release SET | 2.2 blinks three times then LS displayed |
| 9 | Press and release SET | 3.4 |
| 10 | Press DOWN arrow until 1.1 is reached | New LS temperature (1.1°C) displayed |
| 11 | Press and release SET | 1.1 blinks three times, then US displayed |
| 12 | Press and release SET | 5 |
| 13 | Press UP arrow until 10.0 is reached | New US temperature (10°C) displayed |
| 14 | Press and release SET | 10.0 blinks three times, then CF displayed |
| 15 | Wait until current refrigerator temperature is displayed before pressing any keys | CF displayed for approximately 15 seconds |
| 16 | All changes are now in memory | Current refrigerator temperature will display in °C |
| 17 | If needed, adjust cut-out temperature as described above | |

To change temperature display from °C to °F

If you have programmed your controller to display in °C and want to change it back to display in °F, follow the steps below.

| STEP | INPUT | DISPLAY |
|------|--|--|
| 1 | Press and hold SET + DOWN arrow together for 3 seconds | HY |
| 2 | Press UP or DOWN arrow until CF is displayed | CF |
| 3 | Press and release SET | °C |
| 4 | Press UP arrow | °F |
| 5 | Press and release SET | °F blinks 3 times then HY displayed |
| 6 | Press and release SET | 22 |
| 7 | Press DOWN arrow until 4 is displayed | New differential (4°F) displayed |
| 8 | Press and release SET | 4 blinks three times then LS displayed |
| 9 | Press UP or DOWN arrow until US displayed | US |
| 10 | Press and release SET | 100 |
| 11 | Press DOWN arrow until 50 is reached | New US temperature (50°F) displayed |
| 12 | Press and release SET | 50 blinks three times, then CF displayed |
| 13 | Wait until current refrigerator temperature is displayed before passing any keys | CF displayed for 15 seconds |
| 14 | All changes are now in memory | Current refrigerator temperature will display in °F |
| 15 | Press and hold SET for 3 seconds | Current cut-out temperature displayed |
| 16 | Press UP arrow to desired cut-out temperature – minimum: 34 | New cut-out temperature |
| 17 | Press and release SET | New cut-out temperature blinks three times, then current refrigerator temperature will display |
| 18 | Press and hold SET + DOWN arrow together for 3 seconds | HY |
| 19 | Press UP arrow | LS |
| 20 | Press and release SET | 11 |
| 21 | Press UP arrow until 34 is reached | New LS temperature (34°F) displayed |
| 22 | Press and release SET | 34 blinks 3 times, then US displayed |
| 23 | Wait until current refrigerator temperature is displayed before passing any keys | US displayed for 15 seconds |
| 24 | All changes are now in memory | Current refrigerator temperature will display in °F |
| | Conversion complete | |

Controller security

The controller panel can be locked to prevent inadvertent or intentional programming changes. In locked mode, the controller will display cabinet temperature and cut-out set point only.

To lock the controller

1. Press the UP/DOWN ARROW in the middle until “POF” displays.
2. Programmer is now locked.

To unlock the controller

1. Press UP/DOWN ARROW in middle until “PON” displays.
2. Programmer is now unlocked.

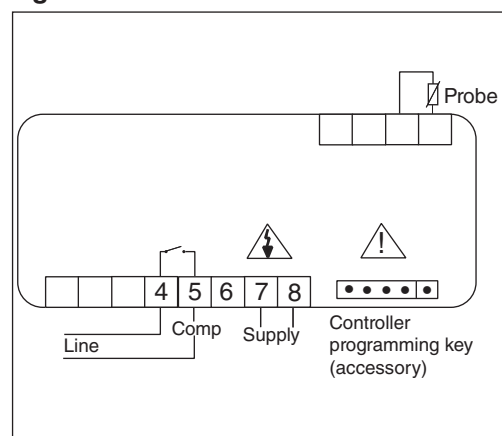
Controller programmer key (optional accessory)

Controller programming keys are available from Follett to provide fast and easy conversion of factory programmed controllers from °F to °C (service part number 00131722) or back to °F (service part number 00130112). In addition both programming keys will accept user programmed cut-out settings to allow fast and easy transfer of these user selected settings to multiple refrigerators.

Programming refrigerator from a key (download)

1. Turn OFF refrigerator.
2. Remove 6 screws from panel holding controller to access back of controller.
3. Insert appropriate programmed key into 5 PIN receptacle on controller back.
4. TURN ON refrigerator.
5. Values from key automatically download to refrigerator (“dol” message blinks followed by “end”).
6. After 10 seconds display returns to current refrigerator temperature and controller will restart with new values.
7. Remove key.

Fig. 9



Note: An “Err” message displays for failed programming. Turn refrigerator OFF then ON to restart download, or remove key to abort.

Programming key from a refrigerator (upload)

1. If required re-program your refrigerator to °C (using 00131722) or °F (using 00130112).
2. Set the controller to the desired cut-out temperature using the controller key pad.
3. Remove 6 screws from panel holding controller to access back of controller.
4. With controller ON, insert key into 5 PIN receptacle on controller back.
5. Push UP ARROW on controller front (“uPL” displays followed by “end”).
6. Press SET (“end” stops flashing).
7. TURN OFF refrigerator and remove key.
8. Turn refrigerator back on.
9. Programming key is now programmed.

Note: An “Err” message displays for failed programming. Push UP ARROW again to restart upload or remove key and abort.

Operation

The temperature control board and probe indicate when the refrigeration system is required to turn on and off.

The refrigeration system removes heat from the cabinet interior and rejects it to the surrounding room air. When the cabinet interior temperature reaches 4°F above the controller set point, the probe signals the controller to turn the refrigeration system on. The normally open controller contacts close and energize the evaporator and condenser fan motors and compressor. The compressor uses a current-style starting relay and a starting capacitor to start the compressor motor.

When the cabinet interior temperature falls to the set point, the probe signals the controller to turn the refrigeration system off. The controller contacts reopen, which de-energizes the evaporator and condenser fan motors and the compressor.

Any accumulated frost on the evaporator coils melts during the off cycle. The condensate drains to a plastic drain pan mounted above the condensing unit. The heat from the condensing unit evaporates any condensate in the drain pan.

Temperature control

The temperature control system is preset by the factory to maintain a cabinet temperature of 34°F – 38°F. If desired, the cut-out temperature can be raised as high as 42°F by following the instructions on page 7 for changing the temperature set point. The 4°F cut-out differential will be maintained regardless of the controller set point.

Defrosting

REF Series undercounter refrigerators do not require manual defrosting. The unit cooler defrosts automatically when the condensing unit is in the OFF cycle.

Cleaning

Interior – Using a sponge or soft cloth, clean unit with a non-abrasive, non-chlorinated, all-purpose detergent.



Use only non-chlorine-based cleaners. Cleaners containing chlorine can cause staining and pitting of the stainless steel.

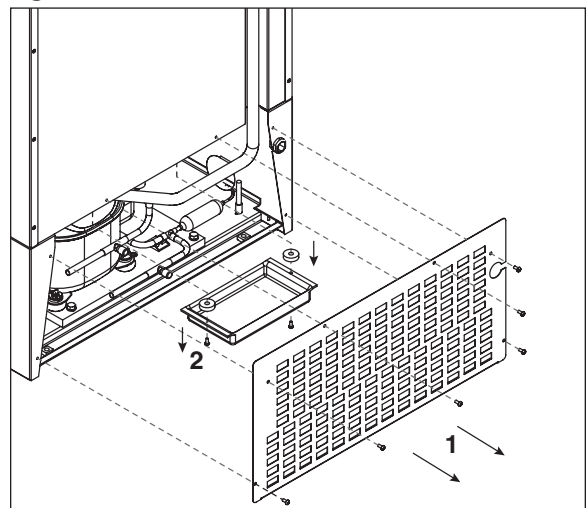
Exterior – Wipe exterior with a soft cloth in the direction of grain as needed. Stainless steel polish may be used to enhance the finish of the unit.

Annual cleaning

Removal of dust and other particulates from air intake areas and the condenser is important for proper operation. Some environments with large amounts of dust may require more frequent cleaning.

1. Disconnect power to unit by turning switch on the lower front panel to the OFF position, switching circuit breaker to OFF position, and removing power cord from receptacle.
2. Remove lower front and rear panels (Fig. 10.1).
Note: Front loupered panel may be removed for more frequent cleaning of the condenser as needed
3. Remove drain pan (Fig. 10.2).
4. Clean drain pan with a non-abrasive, non-chlorinated all-purpose detergent.
5. Reinstall drain pan.
6. Use a vacuum cleaner with brush attachment to clean condenser through lower front panel and compressor motor and related parts through lower rear panel.
7. Reinstall lower rear and lower front panels.

Fig. 10



Service

Latch adjustment

To adjust for proper latch engagement

1. Loosen striker plate mounting screws (Fig. 11.1).
2. Move striker plate up or down as required and tighten screws.
3. Test operation of latch.

To adjust for proper gasket seal

1. Loosen striker depth adjustment screw (Fig. 11.2).
2. Adjust stop in or out and tighten screws.
3. Test operation of latch.

Door gasket replacement

1. Remove existing gasket from mounting track.
2. Verify mounting track is free of any remaining gasket material.
3. Align new gasket with mounting track and press firmly in place.
4. Open and close door, checking for proper gasket seal without pinching against refrigerator.
5. Adjust latch and or striker as necessary for proper door closure.

Slide-out compressor tray

Follett's slide-out compressor tray allows technicians to partially slide the condensing unit from the refrigerator back without cutting refrigerant lines.

1. Remove rear panel (Fig. 12.1).
2. Remove two screws and spacers securing condensate pan, and set pan aside (Fig. 12.2).
3. Remove two bolts securing condensing unit to refrigerator base (Fig. 12.3).
4. Gently slide condensing unit out (Fig. 12.4).

Note: Do not put undue strain on the refrigerant lines.

Fig. 11

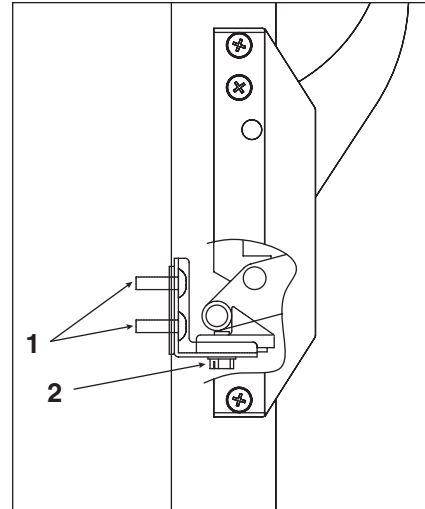
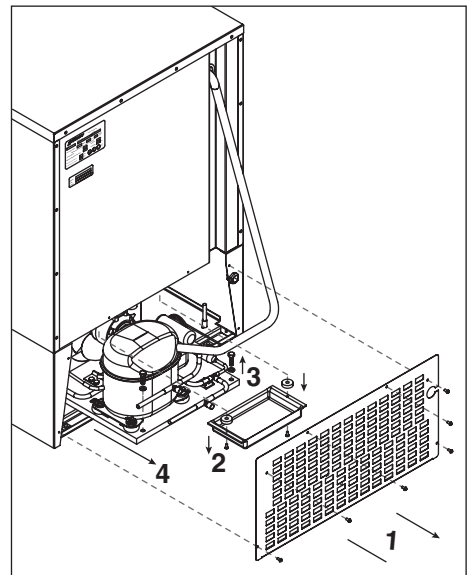


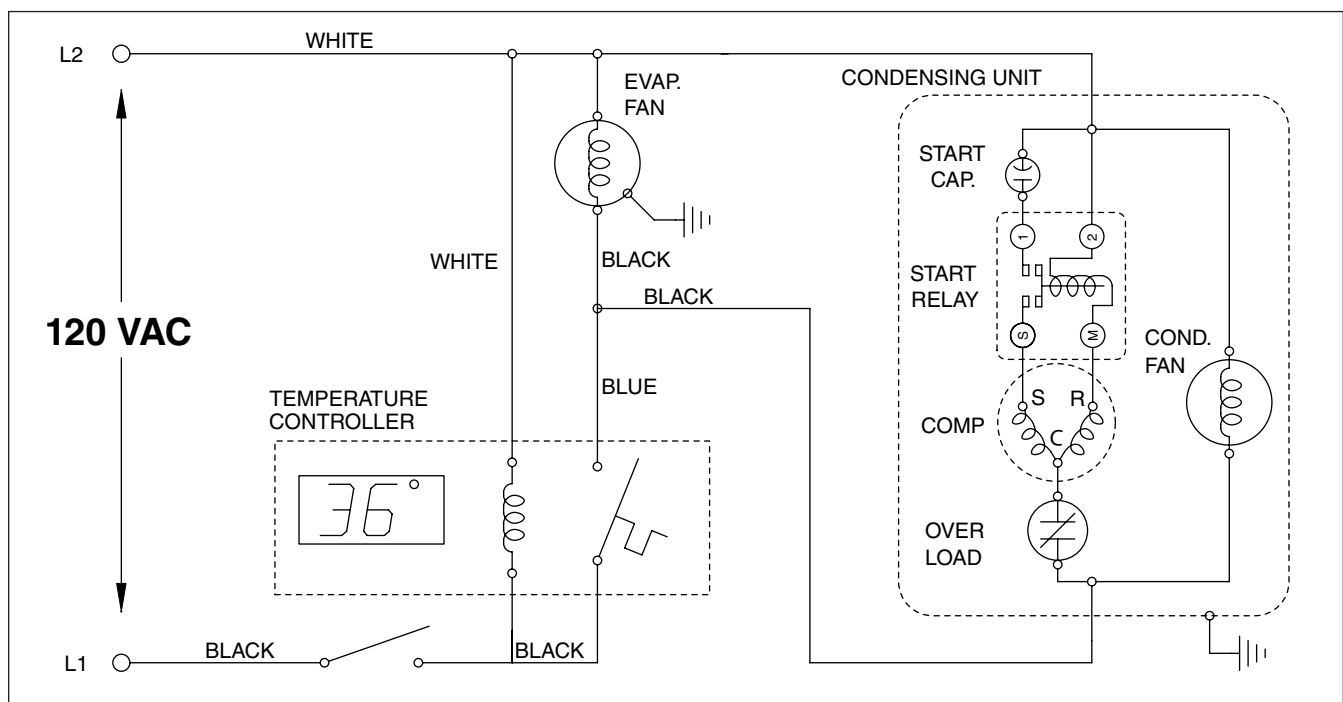
Fig. 12



Controller replacement

1. Disconnect power to unit:
 - a. Push front panel rocker switch to OFF position.
 - b. Switch circuit breaker to OFF position and disconnect power cord.
2. Remove 4 screws from front panel to access back of controller.
3. Disconnect front panel wiring harness from refrigerator at 5 pin connector.
4. Disconnect wiring from controller back.
5. Push in at center of orange* brackets to release and slide brackets back and off of controller.
6. Push controller out through front of front panel.
7. Gently remove bezel from controller and install on replacement controller.
8. Insert controller through front of panel.
9. Slide brackets onto sides of controller and push against back of panel.
10. Reconnect wiring to controller.
11. Reconnect 5 pin connector to refrigerator wiring harness.
12. Replace front panel, restore power and test operation. Reprogram replacement controller if necessary.

Wiring diagram



Refrigeration system

The REF Series refrigeration system is designed to give many years of trouble-free service. Except for routine cleaning of the air-cooled condenser and related parts, the refrigeration system requires no service or maintenance. The system uses a capillary tube and is critically charged. Access fittings are provided for ease of service. However, the connection of refrigeration service hoses to the fittings will almost invariably result in a significant change in the system charge. This change can adversely affect the performance of your refrigerator. Therefore, Follett recommends that if hoses are ever connected to the refrigeration system for service, the refrigerant should be recovered, the system evacuated, and recharged by weighing in the correct refrigerant charge.

Note: Do not charge the system by pressures.

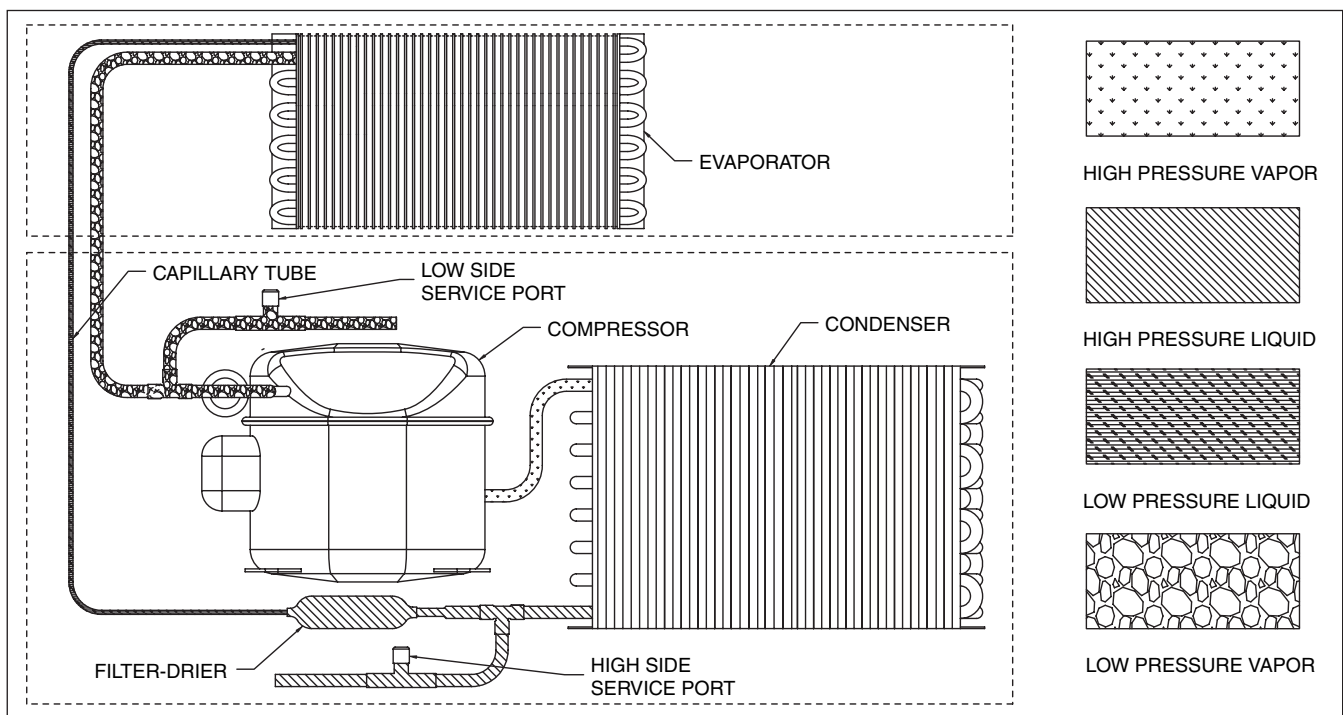
Checking refrigeration system pressures

1. Remove the rear access panel (Fig. 12).
2. Turn the power switch to the on position.
3. Following the instructions on page 6 verify that the temperature controller is set to the original factory cut-in setting of 38°F.
4. Allow the refrigerator to operate and stabilize at least 30 minutes, verifying the cut-out temperature is being reached.
5. Connect refrigerant hoses to access fittings and measure air temperature at condenser intake grille.
6. Verify correct pressures with the temperature chart below.
7. Troubleshoot refrigeration system as needed.

| | | | | |
|--|-----|-----|-----|-----|
| Condensor inlet air temperature | 70 | 80 | 90 | 100 |
| Discharge pressure | 198 | 230 | 270 | 311 |
| Suction pressure | 25 | 31 | 38 | 46 |

Note: Do not attempt to obtain correct refrigeration pressures by adjusting the system charge.

Refrigeration system diagram



Refrigerator troubleshooting guide

Before calling for service

1. Check that unit is plugged in.
2. Test outlet with another appliance to verify power.

| Symptom | Possible cause | Solution |
|--|---|--|
| Refrigerator does not operate (no components run). | <ol style="list-style-type: none">1. Power switch faulty or in OFF position; loose connection.2. Refrigerator not plugged in.3. No power to cord.4. Temp controller not energizing components.5. Probe not sensing cut in temperature. | <ol style="list-style-type: none">1. Turn power switch to ON position; check switch and connections.2. Connect plug.3. Restore power.4. Check controller contact terminals for power. Replace controller if needed.5. Replace controller and/or probe. |
| Compressor does not run. | <ol style="list-style-type: none">1. Thermal overload open or defective.2. Capacitor and/or relay defective.3. Compressor defective. | <ol style="list-style-type: none">1. Allow to cool or replace.2. Replace as required.3. Replace compressor. |
| Evaporator fan motor does not run. | <ol style="list-style-type: none">1. Defective fan motor. | <ol style="list-style-type: none">1. Replace fan motor. |
| Refrigerator does not shut off. | <ol style="list-style-type: none">1. Controller not sensing cut off temperature.2. Controller keeping refrigeration system energized. | <ol style="list-style-type: none">1. Replace controller and/or probe.2. Replace controller. |
| Refrigerator does not maintain temperature (all components run). | <ol style="list-style-type: none">1. Condenser or evaporator coil needs cleaning.2. Faulty door gasket.3. Excessively high ambient.4. Refrigerant leak.5. Incorrect refrigerant charge.6. Plugged capillary tube.7. Inefficient compressor. | <ol style="list-style-type: none">1. Clean coils as needed.2. Replace door gasket.3. Maximum recommended ambient is 100 degrees F.4. Locate and repair leak.5. Recover, evacuate and weigh in correct charge.6. Replace capillary tube.7. Consult technical service. |

If problems persist after following this basic troubleshooting guide, call Follett's technical service group at (800) 523-9361 or (610) 252-7301.

Accessories

Temperature alarm

Before installing alarm

1. Remove supplied 9-volt back-up battery from packing box.
2. Remove 2 screws from module face and remove faceplate.
3. Install back-up battery on battery connector.
4. Locate DIP switches on the back of the faceplate (Fig. 13).
5. Review the factory DIP switch settings (Fig. 14) and make any changes required to meet the needs of your specific application.
6. Reinstall faceplate.

Fig. 13

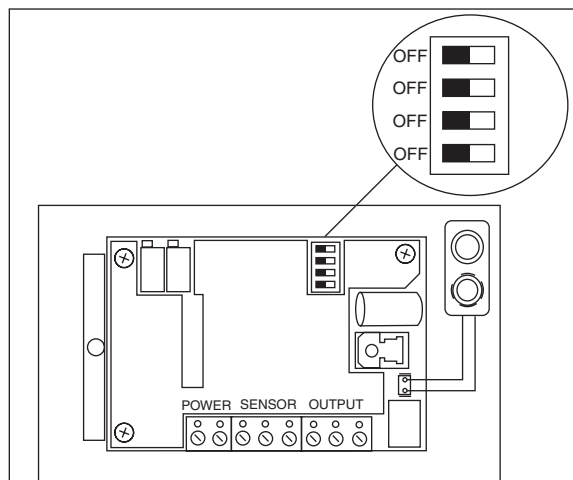


Fig. 14

| Dip Switch | OFF (factory default setting) | ON |
|------------|--|--|
| 1 | No alarm delay | 45 minute alarm delay |
| 2 | Auto reset (alarm stops automatically as soon as temperature returns to set range) | Manual reset of alarm (user must press RESET button to stop audible alarm even if temperature has returned to set range) |
| 3 & 4 | Audible alarm on (no snooze with both off) | No audible alarm |
| 3 | Enables 5 min alarm “snooze” when reset button is pressed (3 off with 4 on) | Enables 45 min alarm “snooze” when reset button is pressed (3 on with 4 off) |

Installing alarm

1. Mount alarm in desired location with screws (supplied by others) through back of housing. Do not place undue strain on probe cable.
- Note:** Do not modify length of probe wire. Probe will not measure temperature correctly if wire length is changed.
2. Plug power cord into 110 outlet.
3. Push center tab of short bottle bracket into top of rear left pilaster (Fig. 15).
- Note:** Use longer bottle bracket for REF5 refrigerators using cut-out upper shelf accessory.
4. Fill bottle with glycerin or other liquid to increase accuracy of readings by simulating the internal temperature of medications.
5. Insert bottle into bottle bracket.
6. Route probe through hole in refrigerator back and push probe down through gasketed bottle top.

Note: Alarm probe must be placed in bottle for proper system operation. Refer to Fig. 16 if attaching alarm to central monitoring or central alarm system. A SPDT 1 amp 24V AC resistive relay is provided for this connection.

Fig. 15

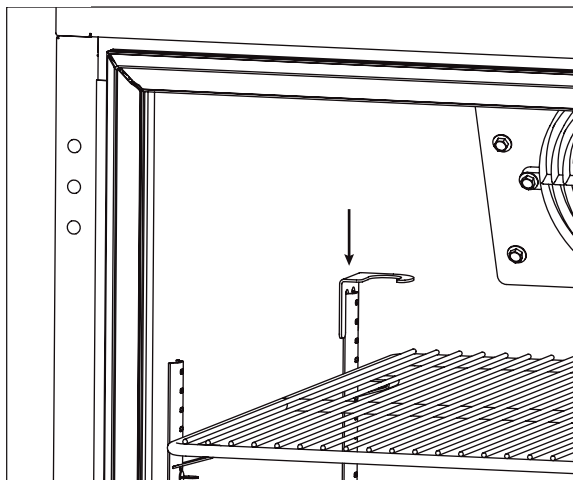
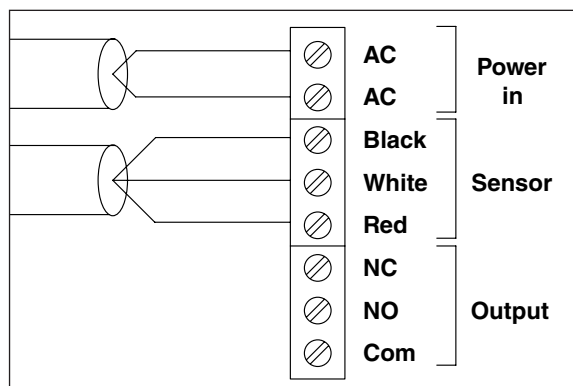


Fig. 16



Setting alarm temperatures

1. After the installation is complete, allow 30 minutes for the system to stabilize to ambient temperature.
2. Calibrate temperature alarm to refrigerator display
 - a. Calibration is best done with the alarm probe removed from the probe bottle and placed in the vicinity of the temperature controller probe. Allow at least 15 minutes for the probe temperature to stabilize.
 - b. Note the temperature value displayed on the refrigerator controller and subtract the temperature value displayed on the alarm. This value is the differential.
Example: Temperature controller: 36°F Alarm: 38°F
Controller – Alarm = Differential 36 – 38 = -2
 - c. Press SET until “CAL” is displayed (Fig. 17.1).
 - d. Press SET again to display “CAL” value (Fig. 17.1).
 - e. Press top or bottom of ADJUST arrow to display the calculated differential (-2°F in example above).
3. Set high alarm limit
 - a. Press SET until “HSP” is displayed (Fig. 17.1).
 - b. Press SET again to display HSP value (Fig. 17.1).
 - c. Press top or bottom of ADJUST arrow until desired HSP value is displayed (Fig. 17.2).
4. Set low alarm limit
 - a. Press SET until “LSP” is displayed (Fig. 17.1).
 - b. Press SET again to display LSP value (Fig. 17.1).
 - c. Press top or bottom of ADJUST arrow until desired LSP value is displayed (Fig. 17.2).
5. Display will return to temperature display in approximately 15 seconds.
6. Place alarm probe back in probe bottle.

Viewing high/low log

Follett's alarm module allows users to view the highest and lowest temperatures recorded since the last time the RESET button was pressed.

To view high and low log values

1. Press SET button until “HI” appears.
2. Press SET button to view HI log value.
3. Press SET button until “LOW” appears.
4. Press SET button to view low log value.
5. Press RESET button to clear log.

Alarm operation facts

The back-up battery will continue to provide alarm protection during power failure but will alarm **ONLY** if temperatures go out of the selected range. During power failure the alarm face will be dark but temperatures can be read by pressing the RESET button.

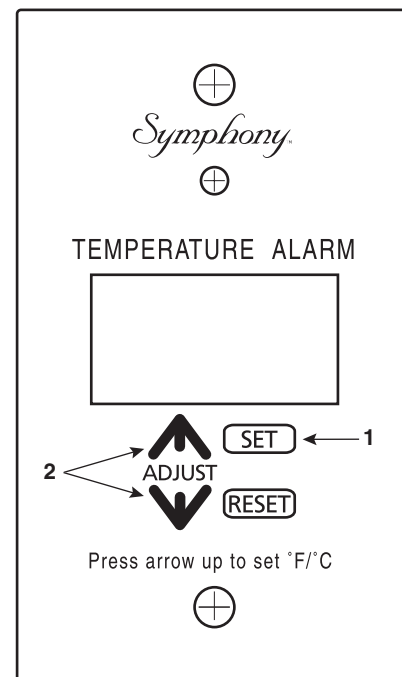
Because the temperature alarm display simulates the true temperature of stored medications rather than the air temperature inside the refrigerator, we suggest that staff refer to the alarm display to log temperatures for JCAHO compliance.

Automated medication dispensing and inventory systems interface

(Pyxis®, Omnicell®, MedSelect®, etc.)

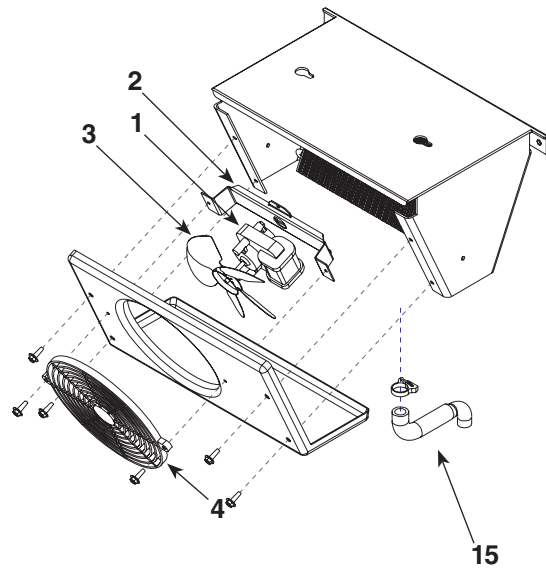
Follett refrigerators and freezers are compatible with most major automatic medication and inventory systems. In some cases a Follett bracket accessory is required. Contact factory for further information.

Fig. 17

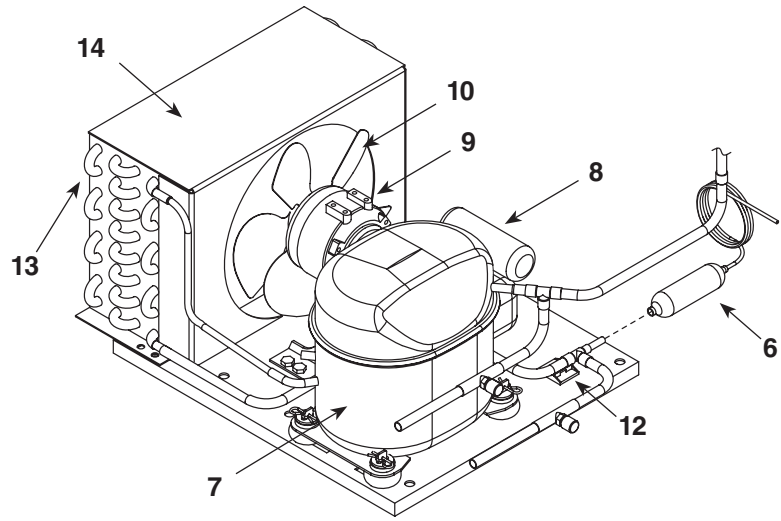


Replacement parts

Evaporator - Reference #5

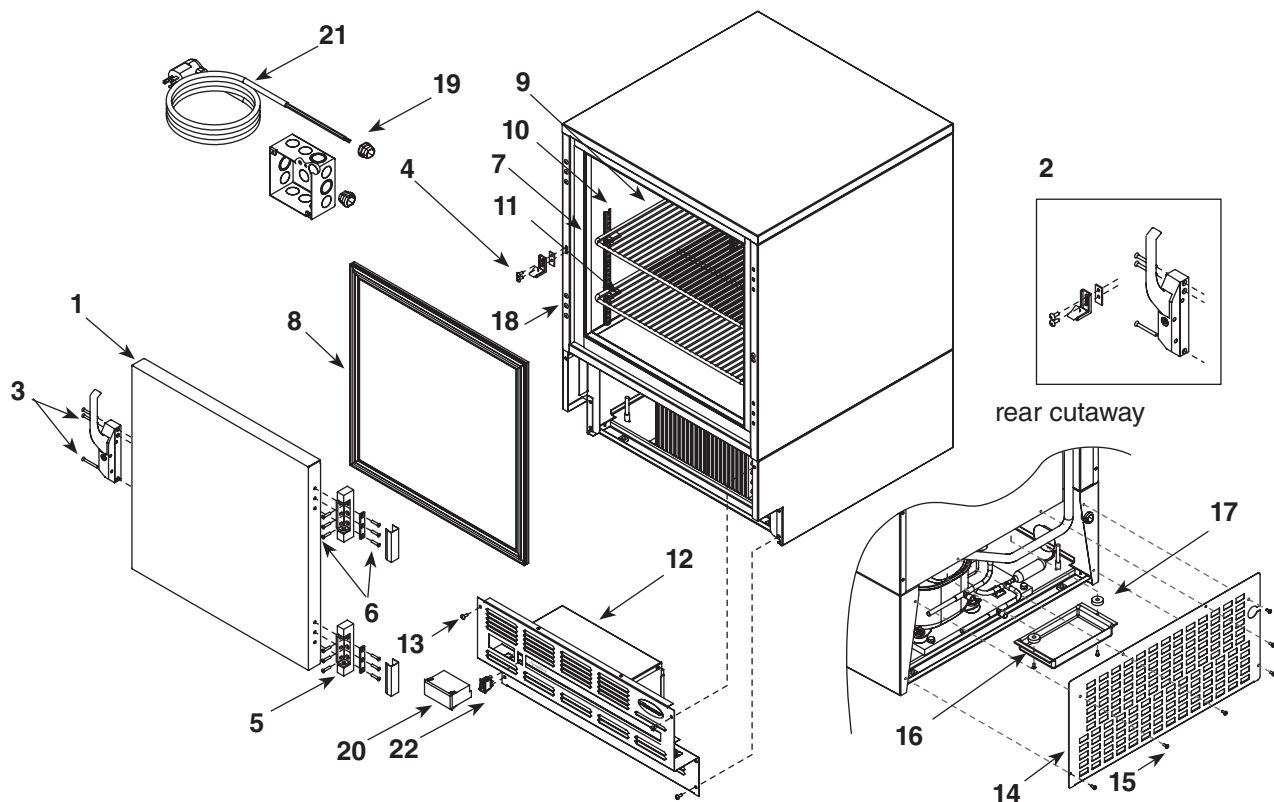


Condensing unit - Reference #11



Refrigeration

| Reference # | Description | Part # |
|-------------|---|----------|
| 1 | Fan motor, evaporator | 00104919 |
| 2 | Bracket, fan motor | 00104927 |
| 3 | Fan blade | 00104935 |
| 4 | Fan guard | 00104943 |
| 5 | Evaporator (includes parts above) | 00104885 |
| 6 | Filter drier & capillary tube | 00103267 |
| 7 | Compressor | 00104950 |
| 8 | Starting capacitor | 00104968 |
| Not shown | Starting relay | 00104976 |
| Not shown | Overload protector | 00104984 |
| 9 | Condenser fan motor | 00104992 |
| 10 | Condenser fan blade | 00105007 |
| Not shown | Fan motor bracket | 00157412 |
| 11 | Condensing unit | 00105106 |
| 12 | Wiring strain relief | 00105577 |
| 13 | Condenser | 00105619 |
| Not shown | Cap, starting capacitor | 00105627 |
| 14 | Shroud, condenser | 00157347 |
| 15 | Drain tube, evaporator (includes clamp) | 00121681 |



Hardware

| Reference # | Description | Part # |
|-------------|--|----------|
| 1 | Door, REF5 (includes gasket – 21 3/8" x 21 3/8") | 00105015 |
| Not shown | Door, REF4-ADA (includes gasket – 21 3/8" x 18 5/8") | 00113910 |
| 2 | Latch & striker (includes screws) | 00105023 |
| 3 | Latch screws (each – 3 per latch) | 00103507 |
| 4 | Striker screws (each – 2 per striker) | 502287 |
| 5 | Hinge (each – 2 required, includes screws) | 00105031 |
| 6 | Hinge screws (each – 6 per hinge) | 00105080 |
| 7 | Strip sealer (set of 4), REF5 | 00130138 |
| Not shown | Strip sealer (set of 4), REF4-ADA | 00130146 |
| 8 | Gasket, REF5 (21 3/8" x 21 3/8" door) | 00125732 |
| Not shown | Gasket, REF4-ADA (21 3/8" x 18 5/8" door) | 00127738 |
| 9 | Shelves, full (each) | 00103283 |
| Not shown | Shelf, upper (cut out) | 00127753 |
| 10 | Pilaster (each) | 00105346 |
| Not shown | Thumb screws (set of 8) | 00105353 |
| 11 | Shelf support (snap-in, each) | 00156240 |
| 12 | Lower front panel (includes 00114371 and screws) | 00130120 |
| 13 | Front panel screws (each – 6 per panel) | 00105379 |
| 14 | Rear panel (includes screws) | 00130161 |
| 15 | Screws, rear panel (each – 6 per panel) | 00105387 |
| 16 | Condensate tray (includes screws & spacers) | 00103275 |
| Not shown | Key | 00105072 |
| 17 | Spacer, condensate pan | 00105098 |
| Not shown | Seal, bushing, rear panel | 00114512 |
| 18 | Finishing plug | 00105536 |
| Not shown | Leveling leg | 00128900 |
| 19 | Strain relief, power cord | 00105403 |

Electrical components

| | | |
|-----------|--|----------|
| 20 | Temperature controller (includes 00130096) | 00128868 |
| Not shown | Probe, temperature | 00130096 |
| 21 | Power cord | 00103903 |
| 22 | Power switch, recessed mount | 00114371 |
| Not shown | Strain relief, wiring, front panel | 00105577 |
| Not shown | Faceplate, °F | 00129403 |
| Not shown | Faceplate, °C | 00129411 |
| Not shown | Programming key °F | 00130112 |
| Not shown | Programming key °C | 00131722 |

Temperature alarm accessory

| | | |
|-----------|---|----------|
| Not shown | Bottle kit (includes bottle, bracket and gasket) | 00113779 |
| Not shown | Controller kit (includes battery, probe and power supply) | 00108175 |
| Not shown | Gasket, bottle | 00112029 |
| Not shown | Bracket, bottle | 00112011 |
| Not shown | Bottle | 00112037 |
| Not shown | Battery | 00112177 |
| Not shown | Screws, (includes two for securing cover) | 00115063 |
| Not shown | Label, controller cover | 00115071 |
| Not shown | Temperature probe | 00115097 |

Door brackets for medication dispensing systems

| | | |
|-----------|-----------------------|----------|
| Not shown | Omniceil door bracket | 00158014 |
| Not shown | Pyxis door bracket | 00114702 |

